REMARKS

Claims 1-6, 8-17, 20-22 and 24 are now pending in this application. Claims 7, 18, 19, 23 and 25-27 have been canceled by this amendment. Each of the pending claims is believed to define an invention which is novel and unobvious over the cited references. Favorable reconsideration of this case is respectfully requested.

Claims 17-24 have been rejected under 35 U.S.C. 101 as being directed to non-statutory subject matter. The specification has been amended to eliminate the definition of machine accessible memory objected to by the Examiner. Consequently, the withdrawal of this rejection is respectfully requested.

Claims 1-3, 5, 6, 9-12, 17, 18, and 21-27 have been rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent Number 6,006,312 to Kohn et al.

Regarding independent claim 1, independent claim 1 has been amended to incorporate the subject matter of dependent claim 7. As is noted on page 7 of the Office Action, Kohn fails to disclosed the subject matter recited in dependent claim 7. Therefore, independent claim 1 and claims depending therefrom are allowable over Kohn.

Regarding independent claim 17, independent claim 17 has been amended to incorporate the subject matter of dependent claim 19. As noted on page 7 of the Office Action, Kohn fails to disclose the subject matter recited in dependent claim 19. Therefore, claim 17 and the claims depending therefrom are allowable and the withdrawal of this rejection is respectfully requested.

Regarding independents claims 9 and 21 and claims depending therefrom, Kohn fails disclose, teach or suggest storing data in buffers at a location that is offset based on count and a number of bits selected for the offset as is recited in these claims. For example, as shown in Figure 4 of the present application, buffers 52 are provided to store the data. The data may be stored in a data field 54 in the buffers 52. The data field 54 within a buffer may be offset from the beginning of the buffer. For example, data field in buffer 52_{16} is offset by 128 bytes. That is, there is a padding layer from the beginning buffer to 128 bytes where the data field begins and from the end

of the data field to the end of the buffer as is shown in Figure 4 and described at paragraphs 24-26. Kohn et al. makes no mention of offsetting the location of the data within a buffer or memory block.

Accordingly, Kohn does not disclose each and every element recited in the rejected claims as is required by 35 U.S.C. 102. Therefore, the withdrawal of this rejection is respectfully requested.

Claims 4, 7, 8, 13-16, 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kohn in view of U.S. Patent Number 6,507,898 to Gibson et al.

Gibson describes a cache memory 230 having end separately addressable memory banks organized as M cache lines and N programmable addressed generators 1881 each coupled to a corresponding one of the N memory banks. Figure 6 and the related discussion cited by the Examiner at column 13, line 55 – column 14, line 6 of Gibson relates to a instruction queue 1022. An instruction generator 1030 generates instructions for execution for the coprocessor 224, column 13, lines 30-31. A memory manager 1031 and a the queue manager 1032 are used to manage the instruction queue 1022. The queue manager 1032 may clean up completed constructions in queue by releasing the memory that was dynamically allocated for those instructions, column 14, lines 19-21. The memory manager may cause the CPU to block processing to free available memory, column 14, lines 41-47. There is no disclosure, teaching or suggestion in Gibson of allocating extra memory to memory blocks within a queue based on that least one of the number memory blocks, an intended size for the memory blocks, and an aliasing range address as is recited in the rejected claims.

Accordingly, independent claim 1, which incorporates claim 7, independent claim 13 and independent claim 17 which incorporates claim 19 and claims depending therefrom are allowable over the cited art. In view of the above, it is clear that the cited references, taken alone are or in combination, fail to fairly teach or suggest the claimed invention. Therefore, the withdrawal of this rejection is respectfully requested.

Early issuance of a Notice of Allowance is respectfully solicited.

If the Examiner is of the opinion that the prosecution of this application would be advanced by a personal interview, the Examiner is invited to telephone undersigned counsel to arranged for such an interview.

The Commissioner is authorized to charge any fee necessitated by this Amendment to our Deposit Account No. 22-0261.

In view of the above amendment, applicant believes the pending application is in condition for allowance.

Dated: September 8, 2006   Respectfully submitted,

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